

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

EP 1 265 317 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
14.01.2004 Bulletin 2004/03

(51) Int Cl. 7: H01R 13/05, H01R 13/24

(43) Date of publication A2:  
11.12.2002 Bulletin 2002/50

(21) Application number: 02012641.3

(22) Date of filing: 06.06.2002

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR  
Designated Extension States:  
AL LT LV MK RO SI

(30) Priority: 08.06.2001 JP 2001174895

(71) Applicant: J.S.T. Mfg. Co., Ltd.  
Osaka-shi, Osaka (JP)

(72) Inventors:  
• Harasawa, Masaaki  
Kohoku-ku, Yokohama-shi, Kanagawa (JP)  
• Tomonari, Yozo  
Kohoku-ku, Yokohama-shi, Kanagawa (JP)

(74) Representative: Appelt, Christian W.  
Forrester & Boehmert  
Pettenkoferstrasse 20-22  
80336 München (DE)

### (54) Contact and electric connector onto which the contact is mounted

(57) A contact capable of achieving the reduction of height in the direction of displacement, and of obtaining excellent contact pressure. A contact 10 comprises substantially a belt-like elastic contact member 20 having a terminal 21 at one end and a contact part 27 at the other end and substantially a belt-like elastic protection member 30 having a fixing part 31 at one end and a protecting part 37 at the other end and an accommodation hole 33 provided in the protection member 30 between the fixing part 31 and the protecting part 37, wherein the elastic contact member 20 is spaced from and disposed in parallel with the protection member 30 at a given interval

while a tip end 29 of the contact part 27 of the elastic contact member 20 is positioned inside and in parallel with the protecting part 37. The accommodation hole 33 is formed such that a part of the elastic contact member 20 enters accommodation hole 33 as the elastic contact member 20 is elastically deformed. When another contact contacts the contact part 27 of the elastic contact member 20 of the contact 10, the elastic contact member 20 is moved downward and displaced, and a part of the elastic contact member 20 near the contact part 27, for example, a flat part 25, an inclined face 26 and a tip end 29 enter the accommodation hole 33.

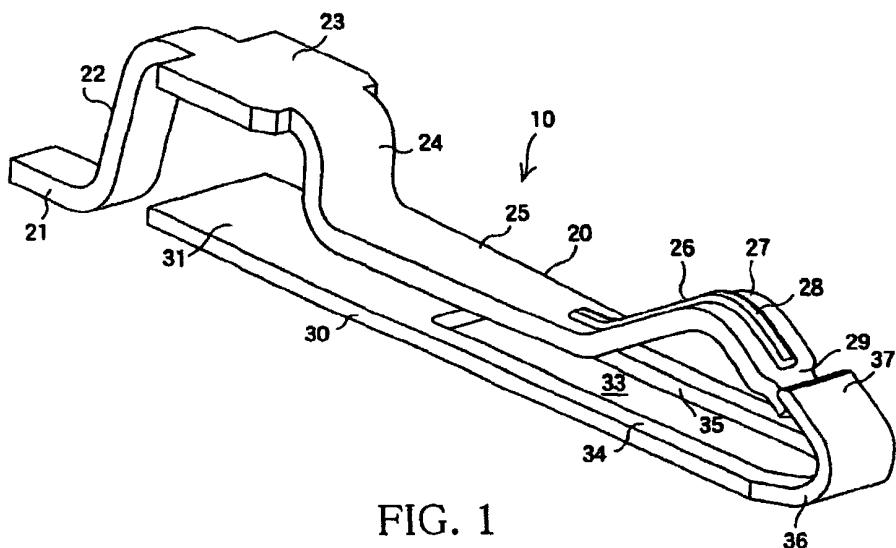


FIG. 1



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 02 01 2641

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	US 4 344 665 A (J.J.RACILLA ET AL) 17 August 1982 (1982-08-17) * column 2, line 51 - line 60; figures 1,5 *	1,2,4,5, 7,10-12	H01R13/05 H01R13/24
A	US 5 980 323 A (H.G.BRICAUD ET AL) 9 November 1999 (1999-11-09) * column 2, line 54 - column 3, line 32 * * column 5, line 11 - line 17; figure 1A *	1,2,5,8, 10-12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
BERLIN	14 November 2003	Alexatos, G	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 01 2641

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-11-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4344665	A	17-08-1982	NONE		
<hr/>					
US 5980323	A	09-11-1999	FR	2714539 A1	30-06-1995
			CN	1119045 A ,B	20-03-1996
			CN	1195148 A	07-10-1998
			CN	1224878 A ,B	04-08-1999
			DE	69419406 D1	12-08-1999
			DE	69419406 T2	02-03-2000
			EP	0686289 A1	13-12-1995
			EP	0803835 A2	29-10-1997
			EP	0860792 A2	26-08-1998
			ES	2135692 T3	01-11-1999
			WO	9518421 A1	06-07-1995
			JP	3443001 B2	02-09-2003
			JP	11067387 A	09-03-1999
			JP	3195567 B2	06-08-2001
			JP	10064638 A	06-03-1998
			JP	2878457 B2	05-04-1999
			JP	8510590 T	05-11-1996
			KR	242733 B1	01-02-2000
			KR	262806 B1	01-08-2000
			KR	264099 B1	16-08-2000